

ABSTRACT

The invention disclosed herein relates to an explosive capable of enhanced combustion efficiently capable of sustaining a high pressure over a period of time in a confined environment, such as an air tight room or a cave, where oxygen may be in limited supply. An embodiment of the present invention is a metal composite that combines a binder, a reactive metal and an oxidizer. In another embodiment, a plasticizer and a catalyst are added. In another embodiment of the present invention, a solid fuel-air explosive (SFAE) having an annular construction is used. In a typical annular construction, a cylindrical shell of SFAE surrounds the cylindrically shaped high explosive. The SFAE includes at least one of reactive metal and metal composite. In addition, the metal composite is formed from at least one reactive metal, at least one binder and an oxidizer.